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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/700,042		11/04/2003	Seiji Makita	107348-00382	348-00382 3155	
4372	7590	06/06/2005		EXAM	EXAMINER	
ARENT FO		C T AVENUE, N.W.	BONCK, RO	BONCK, RODNEY H		
SUITE 400		TAVENOL, N.W.		ART UNIT	PAPER NUMBER	
WASHING	TON, DO	20036		3681 DATE MAILED: 06/06/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	N					
	10/700,042	MAKITA ET AL.						
Office Action Summary	Examiner	Art Unit						
	Rodney H. Bonck	3681						
The MAILING DATE of this communication app	1		•					
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONED	ely filed  will be considered timely.  the mailing date of this communicator  (35 U.S.C. § 133).	tion.					
Status	•							
1)⊠ Responsive to communication(s) filed on <u>13 A</u>	<u>pril 2005</u> .							
	action is non-final.							
<u> </u>								
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-4</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/o	r election requirement.							
Application Papers								
9) The specification is objected to by the Examine	er.		. ,					
10)⊠ The drawing(s) filed on <u>13 April 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct			• •					
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152	•					
Priority under 35 U.S.C. § 119								
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:		••						
1. Certified copies of the priority document	s have been received.							
2. Certified copies of the priority document	s have been received in Application	on No						
3. Copies of the certified copies of the prio	rity documents have been receive	ed in this National Stage						
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,							
* See the attached detailed Office action for a list	of the certified copies not receive	d.						
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da	(PTO-413) ate						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date		atent Application (PTO-152)						

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#### **DETAILED ACTION**

The following action is in response to the amendment received April 13, 2005.

# **Drawings**

The replacement sheet drawings showing amended Fig. 2 was received on April 13, 2005. These drawings are acceptable. Since new Fig. 2 shows the reference number "M", the previous objection to the drawings is withdrawn.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimoto et al. ('972) in view of Minowa et al. ('873). Yoshimoto et al. disclose a power transmission device comprising a torque converter T and a clutch Cc disposed in series between and engine P and a gear transmission M (see lines 34-38, column 4). The Yoshimoto et al. device does not appear to disclose that the pump capacity of the torque converter is a maximum at a speed ratio equal to 0, decreasing in response to an increase in speed ratio. Minowa et al. disclose a torque converter wherein capacity is a maximum at a speed ratio equal to zero (Fig. 9) and decreases at increased speed ratio to provide improved torque converter efficiency. It would have been obvious to use the torque converter configuration of Minowa et al. in Yoshimoto et al., the motivation being to improve torque converter efficiency.

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimoto et al. ('972) in view of Minowa et al. ('873) as applied to claim 1 above, and further in view of Trusov('243). The torque converter in Yoshimoto et al. does not appear to include an inclination angle of the blade toward the direction of rotation of the pump decreasing from the inner periphery toward the outer periphery. Trusov provides a torque converter with a pump blade that decreases in angle toward the outer periphery, wherein the angle decreases rapidly on the outer peripheral side and approaches the direction of rotation. It would have been obvious to provide this blade

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configuration in Yoshimoto et al., the motivation being to improve efficiency, as taught by Trusov (column 2, lines 47-50).

## Response to Arguments

Applicant's arguments submitted April 13, 2005 with respect to claims 1-4 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney H. Bonck whose telephone number is (571) 272-7089. The examiner can normally be reached on Monday-Friday 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

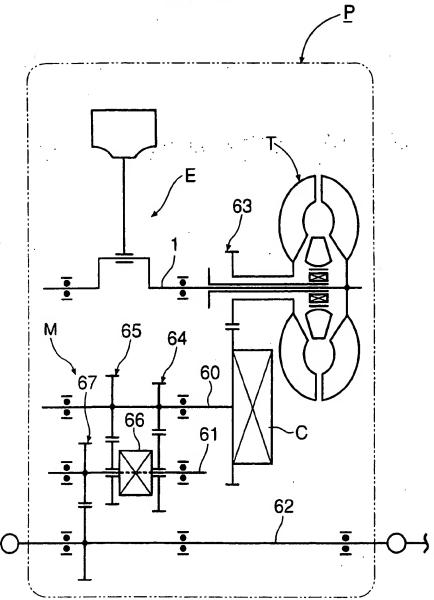
Rodney H. Bonck Primary Examiner Art Unit 3681

rhb May 31, 2005 CARCE CONTRACTOR



U.S. Application No. 10/700,042 By: MAKITA et al. Title: POWER TRANSMISSION DEVICE FOR ASTRIDE-RIDING VEHICLE Replacement Sheet

FIG.2



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2 \* \* = ±='=' = = =